

Substituted Form PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

Attorney's Docket No.

17601-020001

Application No.

10/004,316

**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

Applicant

Joseph A. Zupanick

Filing Date

October 30, 2001

Group Art Unit

3672

(37 CFR § 1.98(b))

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
PPS	A1	4,020,901	05/03/1977	Pisio et al.			
	A2	4,182,423	01/08/1980	Ziebarth et al.			
	A3	4,226,475	10/07/1980	Frosch et al.			
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	A6	4,603,592	08/05/1986	Siebold et al.			
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	A13	6,065,551	05/23/2000	Gourley et al.			
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Foreign Patent Documents or Published Foreign Patent Applications

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	B1							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	C1	

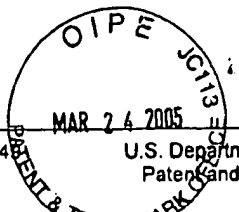
Examiner Signature

Date Considered

5/13/05

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)




Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-020001	Application No. 10/004,316
	Applicant Joseph A. Zupanick		
	Filing Date October 30, 2001	Group Art Unit 3672	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A1						
	A2						
	A3						

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DPS	B1	WO 97/21900	06/19/1997	WIPO			N/A	
	B2							
	B3							

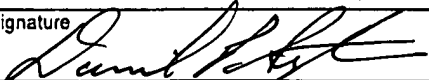
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Examiner Initial	Desig. ID	Document
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	C2	Technology Scene Drilling & Intervention Services, "Weatherford Moves Into Advanced Multilateral Well Completion Technology" and "Productivity Gains and Safety Record Speed Acceptance of UBS," <i>Reservoir Mechanics</i> , Weatherford International, Inc., 2000 Annual Report (2 pages)
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	C7	Molvar, Erik M., "Drilling Smarter: Using Directional Drilling to Reduce Oil and Gas Impacts in the Intermountain West," Prepared by Biodiversity Conservation Alliance, Report issued February 18, 2003, 34 pages
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	C9	Santos, Helio, SPE, Impact Engineering Solutions and Jesus Olaya, Ecopetrol/ICP, "No-Damage Drilling: How to Achieve this Challenging Goal?," SPE 77189, Copyright 2002, presented at the IADC/SPE Asia Pacific Drilling Technology, Jakarta, Indonesia, 09/09-11/2002, 10 pages

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Substitute Form PTO 1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-020001	Application No. 10/004,316
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick	
		Filing Date October 30, 2001	Group Art Unit 3672

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
DPS	C10	Santos, Helio, SPE, Impact Engineering Solutions, "Increasing Leakoff Pressure with New Class of Drilling Fluid," SPE 78243, Copyright 2002, presented at the SPE/ISRM Rock Mechanics Conference in Irving, Texas, 10/20-23/2002, 7 pages
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	C13	Craig C. White and Adrian P. Chesters, NAM; Catalin D. Ivan, Sven Maikranz and Rob Nouris, M-I L.L.C., "Aphron-based drilling fluid: Novel technology for drilling depleted formations," WORLD OIL, Drilling Report Special Focus, October 2003, 6 pages
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Substitute Form PTO-1449 (Modified) FEB 28 2005 U.S. DEPT. OF COMMERCE PATENT & TRADEMARK OFFICE (37 CFR 1.98(b))	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 17601-020001	Application No. 10/004,316
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	Applicant Joseph A. Zupanick		Filing Date October 30, 2001	Group Art Unit 3672

U.S. Patent Documents

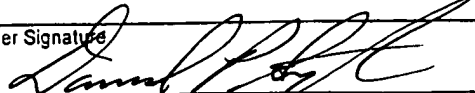
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	A1						
	A2						
	A3						
	A4						
	A5						

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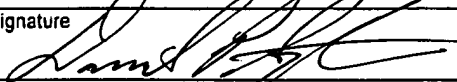
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DPS	C1	Listing of 174 References received from Third Party on February 16, 2005 (9 pages)
	C2	Gardes Directional Drilling, "Multiple Directional Wells From Single Borehole Developed," Reprinted from July 1989 edition of Offshore, Copyright 1989 by PennWell Publishing Company (4 pages)
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	C4	Mike Chambers, "Multi-Lateral Completions at Mobil Past, Present, and Future," presented at the 1998 Summit on E&P Drilling Technologies, Strategic Research Institute, August 18-19, 1998 in San Antonio, Texas (26 pages)
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Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR § 1.102(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-020001	Application No. 10/004,316
		Applicant Joseph A. Zupanick	
		Filing Date October 30, 2001	Group Art Unit 3672

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PPS	C7	Eric R. Skonberg and Hugh W. O'Donnell, "Horizontal Drilling for Underground Coal Gasification," presented at the Eighth Underground Coal Conversion Symposium, Keystone, Colorado, August 16, 1982 (8 pages)
	C8	Gamal Ismail, A.S. Fada'q, S. Kikuchi, H. El Khatib, "Ten Years Experience in Horizontal Application & Pushing the Limits of Well Construction Approach in Upper Zakum Field (Offshore Abu Dhabi)," SPE 87284, Society of Petroleum Engineers, October 2000 (17 pages)
	C9	Gamal Ismail, H. El-Khatib – ZADCO, Abu Dhabi, UAE, "Multi-Lateral Horizontal Drilling Problems & Solutions Experienced Offshore Abu Dhabi," SPE 36252, Society of Petroleum Engineers, October 1996 (12 pages)
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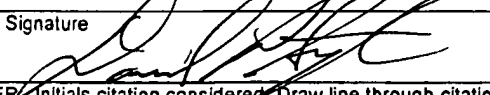
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Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
PPS	B1	442,008	01/23/1936	United Kingdom			N/A	
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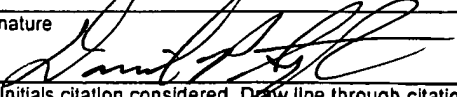
Other Documents (include Author, Title, Date, and Place of Publication)

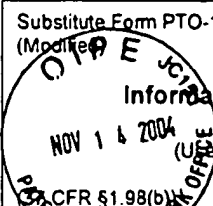
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Substitute Form PTO-1449 (Modified) JAN 31 2005 PATENT & TRADEMARK OFFICE 37 CFR 1.98(b)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-020001	Application No. 10/004,316
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	Applicant Joseph A. Zupanick		Filing Date October 30, 2001

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	C6	Zupanick, J., "Coalbed Methane Extraction," 28 th Mineral Law Conference, Lexington, Kentucky, October 16-17, 2003 (48 pages)
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	C9	Field, Tony, Mitchell Drilling, "Let's Get Technical – Drilling Breakthroughs in Surface to In-Seam in Australia," Presentation at Coal Seam Gas & Mine Methane Conference in Brisbane, November 22-23, 2004 (20 pages)
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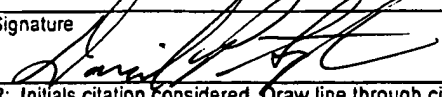
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PPS	A1	3,744,565	07/10/1973	Brown			
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PPS	B1	EP 1 316 673 A2	06/04/2003	EPO			N/A	
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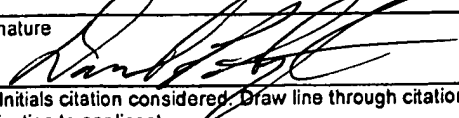
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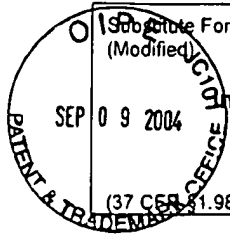
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DS	C10	Fong, David K., Wong, Frank Y., and McIntyre, Frank J., "An Unexpected Benefit of Horizontal Wells on Offset Vertical Well Productivity in Vertical Miscible Floods," Canadian SPE/CIM/CANMET Paper No. HWC94-09, paper to be presented March 20-23, 1994, Calgary, Canada, 10 pages
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	C12	Website of PTTC Network News Volume 7, 1 st Quarter 2001, Table of Contents, http://www.pttc.org/./news/v7n1nn4.htm printed 04/25/2003, 3 pages
	C13	Cox, Richard J.W., "Testing Horizontal Wells While Drilling Underbalanced," Delft University of Technology, August 1998, 68 pages
	C14	McLennan, John, et al., "Underbalanced Drilling Manual," Gas Research Institute, Chicago, Illinois, GRI Reference No. GRI-97/0236, copyright 1997, 502 pages
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DPS	A1	2,797,893	07/02/1957	McCune et al.			
	A2	3,582,138	06/01/1971	Loofbourow et al.			
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	A10	4,753,485	06/28/1988	Goodhart			
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	A12	5,148,877	09/22/1992	MacGregor			
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DPS	B1	WO 94/28280	12/08/1994	WIPO			N/A	

Other Documents (include Author, Title, Date, and Place of Publication)

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DPS	C1	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (7 pages) re International Application No. PCT/US 03/04771 mailed July 4, 2003
DPS	C2	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (5 pages) re International Application No. PCT/US 03/21891 mailed November 13, 2003

Examiner Signature

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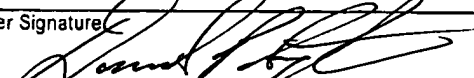
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Substitute Form PTO-1449 (Modified) SEP 09 2004 (37 CFR 1.98(b)) PATENT & TRADEMARK OFFICE	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 17601-020001	Application No. 10/004,316
	Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Joseph A. Zupanick	
			Filing Date October 30, 2001	Group Art Unit 3672

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
PS	C3	Desai, Praful, et al., "Innovative Design Allows Construction of Level 3 or Level 4 Junction Using the Same Platform," SPE/Petroleum Society of CIM/CHOA 78965, Canadian Heavy Oil Association, 2002, pp. 1-11
	C4	Bybee, Karen, "Advanced Openhole Multilaterals," Horizontal Wells, November 2002, pp. 41-42
	C5	Bybee, Karen, "A New Generation Multilateral System for the Troll Olje Field," Multilateral/Extended Reach, July 2002, 2 pages
	C6	Emerson, A.B., et al., "Moving Toward Simpler, Highly Functional Multilateral Completions," Technical Note, Journal of Canadian Petroleum Technology, May 2002, Volume 41, No. 5, pp. 9-12
	C7	Moritis, Guntis, "Complex Well Geometries Boost Orinoco Heavy Oil Producing Rates," XP-000969491, Oil & Gas Journal, February 28, 2000, pp. 42-46
	C8	Themig, Dan, "Multilateral Thinking," New Technology Magazine, December 1999, pp. 24-25
	C9	Smith, R.C., et al., "The Lateral Tie-Back System: The Ability to Drill and Case Multiple Laterals," IADC/SPE 27436, Society of Petroleum Engineers, 1994, pp. 55-64, plus Multilateral Services Profile (1 page) and Multilateral Services Specifications (1 page)
	C10	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (4 pages) re International Application No. PCT/US 03/13954 mailed September 1, 2003
	C11	Logan, Terry L., "Drilling Techniques for Coalbed Methane," Hydrocarbons From Coal, Chapter 12, Copyright 1993, Title Page, Copyright Page, pp. 269-285
	C12	Hanes, John, "Outbursts in Leichhardt Colliery: Lessons Learned," International Symposium-Cum-Workshop on Management and Control of High Gas Emissions and Outbursts in Underground Coal Mines, Wollongong, NSW, Australia, March 20-24, 1995, Title page, pp. 445-449
	C13	Williams, Ray, et al., "Gas Reservoir Properties for Mine Gas Emission Assessment," Bowen Basin Symposium 2000, pp. 325-333
	C14	Brown, K., et al., "New South Wales Coal Seam Methane Potential," Petroleum Bulletin 2, Department of Mineral Resources, Discovery 2000, March 1996, pp. i-viii, 1-96
	C15	Fipke, S., et al., "Economical Multilateral Well Technology for Canadian Heavy Oil," Petroleum Society, Canadian Institute of Mining, Metallurgy & Petroleum, Paper 2002-100, to be presented in Calgary Alberta, June 11-13, 2002, pages 1-11
	C16	PowerPoint Presentation entitled, "Horizontal Coalbed Methane Wells," by Bob Stayton, Computalog Drilling Services, date is believed to have been in 2002

Examiner Signature 	Date Considered 5/13/05
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